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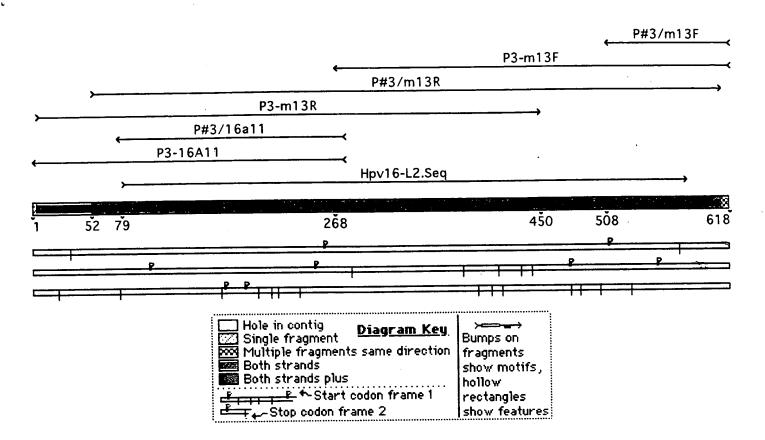
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GCTCTAGCCC CTTCCCCCCG GGCACAAAAC AAAATGCGAC ACAAACGTTC TGCAAAACGC ACAAAACGTG TGCAAAACGC ACAAAACGTG TGCAAAACGC ACAAAACGTG TGCAAACGC ACAAACGTG TGCAAACGC ACAAACGTG GCTCTAGCCC CTTCCCCCCG GGCACAAAC AAAATGCGAC ACAAACGTTC AGCCC CTTCCCCCCG GGCACAAAAC AAAATGCGAC ACAAACGTTC GCTCTAGCCC CTTCCCCCCG GGCACAAAAC AAAATGCGAC ACAAACGTTC CTTCCCCCG GGCACAAAC AAAATGCGAC ACAAACGTTC

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TACCTAAGGT CATCGGCTAC CCAACTTTAT AAAACATGCA AACAGGCAGG TACATGTTCA CCTGACATTA TACCTAAGGT TACCTAAGGT CCTGACATTA TACCTAAGGT TACCTAAGGT CCTGACATTA CCTGACATTA CCTGACATTA CATCGGCTAC CCAACTTTAT AAAACATGCA AACAGGCAGG TACATGTCCA CATCGGCTAC CCAACTTTAT AAAACATGCA AACAGGCAGG TACATGTCCA CATCGGCTAC CCAACTTTAT AAAACATGCA AACAGGCAGG TACATGTCCA CATCGGCTAC CCAACTTTAT AAAACATGCA AACAGGCAGG TACATGTCCA

CATCGGCTAC CCAACTTTAT AAAACATGCA AACAGGCAGG TACATGTCCA CCTGACATTA TACCTAAGGT

P#3 Clone Sequencher™ "Min. vector"

> 42 P3-m13F 42 P#3/m13R 42 P3-m13R 42 P#3/16a11 42 P3-16A11 42 Hpv16-L2.Seq #211

TGGGTTAGGA TTTTTGG TGGGTTAGGA TGGGTTAGGA TATTTTTG: TG TGAAGGCAAA ACTATTGCTG ATCAAATATT ACAATATGGA AGTATGGGTG TATTTTTGG ACTATTGCTG ATCAAATATT ACAATATGGA AGTATGGGTG TATTTTTTGG TATTTTGG ACTATTGCTG ATCAAATATT ACAATATGGA AGTATGGGTG TATTTTTTG: TGAAGGCAAA ACTATTGCTG ATCAAATATT ACAATATGGA AGTATGGGTG TGAAGGCAAA ACTATTGCTG ATCAAATATT ACAATATGGA AGTATGGGTG

TGAAGGCAAA ACTATTGCTG ATCAAATATT ACAATATGGA AGTATGGGTG TATTTTTTGG TGGGTTAGGA

(2) P3-m13F (2) P#3/m13R (2) P3-m13R (2) Hpv16-L2.Seq #2781

ATTGGAACAG GGTCGGGTAC AGGCGGCCGC GAGCTCGAGG GTTATATTCC TGCAAATACA ACAATTCCTT ATTGGAACA: GGTCGGGTAC AGGCGGCCGC GAGCTCGAGG GTTATATTCC TGCAAATACA ACAATTCCTI TGCAAATACA ACAATTCCTT ATTGGAACAG GGTCGGGTAC AGGCGGCCGC GAGCTCGAGG GTTATATTCC TGCAAATACA ACAATTCCTT ATTGGAACAG GGTCGGGTAC AGGCGGCCGC GAGCTCGAGG GTTATATTCC

ATTGGAACAG GGTCGGGTAC AGGCGGCCGC GAGCTCGAGG GTTATATTCC TGCAAATACA ACAATTCCTT

P3-m13F | P#3/m13R | P#3/m13R | PP3-m13R

TTGGTGGTGC ATACAATATT CCTTTAGTAT CAGGTCCTGA TATACCCATT AATATAACTG ACCAAGCTCC TTGGTGGTGC ATACAATATT CCTTTAGTAT CAGGTCCTGA TATACCCATT AATATAACTG ACCAAGCTCC TTGGTGGTGC ATACAATATT CCTTTAGTAT CAGGTCCTGA TATACCCATT AATATAACTG AACAAGCTCC TATACCCATT AATATAACTG ACCAAGCTCC TTGGTGGTGC ATACAATATT CCTTTAGTAT CAGGTCCTGA

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Friday, December 5, 1997

Page 2 of 3

"Min. vector" P#3 Clone Sequencher™

> 图 Hpv16-L2.Seq #421 **四**P#3/m13R 区 P3-m13R 22 P3-m13F

CTTTTATTTA CTTTTATTTA TTCATTAATT CCTATAGTTC CAGGGTCTCC ACAATATACA ATTATTGCTG ATGCAGGTGA CAGGGTCTCC ACAATATACA ATTATTGCTG ATGCAGGTGA CA 6.6 CCTATAGTTC CCTATAGTTC TTCATTAATT TTCATTAATC

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ACATGTT ACGAAAACGA CGTAAACGTT TACCATATTT TTTTTCAGAT GTCTCTTTGG TTTTTCAGAT GTCTCTTTGG TTTTTCAGAT GTCTCTTTGG TTITICAGAT GICTCITIGG CATCCTAGTT ATTACATGTT ACGAAAACGA CGTAAACGTT TACCATATTT CATCCTAGIT ATTACATGIT ACGAAAACGA CGTAAACGIT TACCATATIT CATCCTAGTT ATTACATGTT ACGAAAACGA CGTAAACGTT TACCATATTT

CATCCTAGTT ATTACATGTT ACGAAAACGA CGTAAACGTT TACCATATTT TTTTTCAGAT GTCTCTTTGG

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CTGCCTAGAG ATCTGGAGGG CGGATCCCCC GGGCTGCAGG AATTCGATAT CAA CTGCCTAGAG ATCTGGAGGG CGGATCCCCC GGGCTGCAGG AATTCGATAT CAA CTGCCTAGAG ATCTGGAGGG CGGATCCCCC GGGCTGCAGG AATTC CTGCCTAGAG ATCT CTGCCTAGAG ATCTGGAGGG CGGATCCCCC GGGCTGCAGG AATTCGATAT CAA

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? (g) Pick colonies from lightion rxns E296-11 & E296-2 lighting lates Colony Count was Do high relative to the no insert control lightime plates (approx. 5-10x move cfus on 12 Z VS. -3)

Pick 4 clones from each plates E296-1 & Z (lost Z closed during isolation isolation isolation DNA from on cultures in LB Amp using Promega Midiprep SV (3.60 ml culture), Followed their procedure, did not ethanol ppt offere sequencing:

Digest Clones W/ Not Xhet to confirm presence of 1.2-kb 16 Ez in

Picked Clones ZA of ZB for Sequencina

Using ABI FS Chem. Terminator during and purp

Standard using 6 M (of 100M) DNA from each purp

Sea sections #14 +15 of book#4 Sequencing to

gel files on pZIP100 drive

Hesults:

E 296 ZB Sequence appears

to be good with no changes 1 that

would affect AA transfattor.

12-19-97

Grow up more EZ96-ZB, wolate Using

8, x 3 6 ml preps of Promega wizard 5V ministrep 70:1 or dry

Resuspend oterila water for yeast + remejor mation

Give to B. Mc Clements

12.19+17

Countersigned by Bald Questa.

~ 1. ZK

Date $\frac{2/3/98}{}$

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BMBN 10x lighter (w/ H2O DNA lighter		9							
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	lls as usu. (See £296) to grow cultures over malt 376 regal wirard SV 3.6 mll cultu , SmaI digest.	re Reduced 100 pl to 0							
	ld release a - 550 bp								
Track 1 Track -	Ted W/ in Bal II Sma I PCR Conditions for Bigast 3.7°C, 30', 25°C, 30' Run on 1.2'. Aganose 9								
	20	IJ IG IF IE ID IC IB IA							
Correct Clones = E. Sequence W/ FS Ch Sequence W/ FS Ch Sed Section 16 on	298-1A, 16, 1E, 6-2.2 hem (ABI) Gul DVA (Sep Book 4) 0.65 0.52								
Seguence of appears correct	clone E298-1G + (z other, clones had								
Chlanges and 1 or Depletice reads 177 mers from T	in both directions) 5. Ling-See See book#4) om E 298-16 Using Frome	ga Wizard SV prep							
Hen phenol cHcl- Resuspend in 30 m For transferman	- Lathol Date 1. John John	de 25ul to McClemento, W.							
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	Materials			
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